

## BIBLIOGRAPHY

C. FITZHUGH TALMAN, in Charge of Library

## RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

- Abbot, Charles G.** Weather and radiation. p. 485-500. 26 cm. (Yale rev., v. 16, no. 3, Apr., 1927.)
- Associated factory mutual fire insurance cos.** Windstorms. Windstorm damage and protection for buildings and cranes. 1927. Boston. [c1928.] 80 p. illus. 18½ cm.
- Barnes, Howard T.** Ice engineering. p. 775-789. illus. 24½ cm. (Stone & Webster journ., v. 41, Dec., 1927.)
- Bryan, Kirk.** "Palouse soil" problem with an account of elephant remains in wind-borne soil on the Columbia plateau of Washington. Washington. 1927. ii, 21-46, ii p. plates. 23½ cm. (Cont. to the geogr. of the U. S., 1926.) (U. S. Geol. surv., Bull. 790-B.)
- Burghardt, Gotthard.** Fliegerwetterkunde. Meteorologisches Merkbuch. Berlin. 1927. 131 p. illus. 23 cm. (Bibliothek für Luftschifffahrt und Flugtechnik. Bd. 26.)
- Carpenter, Ford A.** Surveying the roadbeds of the air. unp. illus. 25 cm. (Southern Cal. bus., v. 6, no. 11, Dec., 1927.)
- Drying systems, inc.** Phoenix constant-effect air filter. Chicago. [c1926.] 28 p. illus. 29 cm.
- Gumiński, R.** L'humidité de l'air en Pologne (la marche annuelle et la distribution géographique). Varsovie. 1927. 71 p. illus. 28½ cm. [Author, title and text in Polish. Résumé in French.] (Études mét. et hydrog. Fasc. 3, Année 1927.)
- Hamburg. Deutsche Seewarte.** Atlas für Temperatur, Salzegehalt and Dichte der Nordsee und Ostsee. Hamburg. 1927. plates. 41½ cm.
- Heyl & Patterson, inc.** H. & P. anemometer limit switch. Pittsburgh. 1927. 2 p. plates. 30½ cm. [Manifolded.]
- Holdefleiss, P.** Wärmewirkung der Sonnenstrahlung auf verschiedene Bodenarten. 23 p. illus. 25 cm. (Sonderab.: Kühn Archiv, Bd. 15. Berlin. 1927.)
- Huntington, Ellsworth.** Weather and human progress. p. 34-46. 24½ cm. (Stone & Webster journ., v. 42, Jan., 1928.)
- Imbeaux,** Prévision des crues et des étiages des cours d'eau d'après la pluviométrie et d'après la météorologie. Pithiviers. 1927. 14 p. figs. 28 cm. (Con. internat. de recher. Union géod. & géophys. internat. Com. nat. franç. Sec. d'hydrol. sci. Assem. plénière de Prague. (Sept., 1927.) Quest. 2 & 3.)
- Italy. Min. dell'aeronautica.** I servizi radiometeorici d'aeronautica. Indicazione abbreviata R. T. M.—Ore del tempo medio Greenwich, Aprile 1927 . . . Roma. 1927. 105 p. figs. 13½ cm.
- König, Willi.** Grundzüge der Meteorologie. Leipzig. 1927. 54 p. illus. 18½ cm. (Math.-phys. Bibliothek. Bd. 70.)
- Laughton, Carr, & Heddon, V.** Great storms. London. [1927.] viii, 251 p. fig. plates. 22½ cm.
- Martens, Paul.** Morphologie der Schleswig-Holsteinischen Ostseeküste. Breslau. 1927. 72 p. illus. 25½ cm. (Veröffentl. Schleswig-Holsteinischen Universitätsgesellschaft. Nr. 7.)
- Miller, Eric.** Century of temperatures in Wisconsin. p. 166-177. figs. 23 cm. (Repr.: Trans. Wis. acad. sci., arts, and letters, v. 23. Issued Jan., 1928.)
- Netherlands. K. Meteorologisch instituut.** Het koninklijk Nederlandsch meteorologisch instituut. A. Organisatie en inrichting. 'S-Gravenhage. 1927. 72 p. plates (part fold.) 24 cm. (K. Ned. met. inst. no. 102. Med. en verh. 1 a.)
- Pickard, Greenleaf W.** Relation of radio reception to sunspot position and area. p. 1004-1012. figs. 23 cm. (Repr.: Proc. Inst. radio engin., Dec. 1927.)
- Plummer, F. E., & Leppan, H. D.** Rainfall and farming in the Transvaal. pt. 1. A preliminary investigation into the variability of the rainfall of the Transvaal, by F. E. Plummer. pt. 2. Rainfall in relation to agriculture in the Transvaal (with special reference to part 1 of this Bulletin), by H. D. Leppan. Pretoria. 1927. 63 p. figs. plates. 24½ cm. (Transvaal univ. coll., Bull. no. 12.)
- Schmidt, Wilhelm.** Die Verteilung der Minimumtemperaturen in der Frostnacht des 12. Mai 1927 im Gemeindegebiete von Wien. Wien. n. d. 11 p. plates (fold.) 22 cm. (Sonderab.: Fortschr. der Landwirtsch. 2. Jahrg. 1927.)
- Soltau, Karl Heinrich.** Die geographische Verbreitung und Bedeutung des Nebels in Schleswig-Holstein und Dänemark. Breslau. 1927. 40 p. illus. 25½ cm.
- Stumpff, Karl.** Analyse periodischer Vorgänge. Ein Abriss der Periodographie mit besonderer Berücksichtigung moderner Methoden. Berlin. 1927. x, 188 p. figs. plate. 26 cm. (Sammlung geophys. Schriften Nr. 6.)
- Superior iron works.** Stenbol wind velocity alarm for movable bridges. Superior. n. d. [3 p.] illus. 28 cm.
- Thorkelsson, Thorkell.** Wolkenbeobachtungen in Island. Reykjavík. 1927. 11 p. 32½ cm. [Manifolded.]
- Tzschorner, B.** Wetterkarte und Wettervorhersage. Berlin. 1927. viii, 62 p. figs. 20 cm. (Math.-naturwiss.-tech. Bücherei. Bd. 5.)
- Voigts, Heinrich.** Luftelektrizität. Berlin. 1927. 78 p. illus. 20 cm. (Math.-naturwiss.-tech. Bücherei. Bd. 14.)

## SOLAR OBSERVATIONS

## SOLAR AND SKY RADIATION MEASUREMENTS DURING JANUARY, 1928

By HERBERT H. KIMBALL, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, 52: 42, January, 1925, 53: 29, and July, 1925, 53: 318.

Table 1 shows that solar radiation intensities were above the normal values for January at all three stations. At Lincoln, Nebr., an intensity of 1.53 gram-calories per

minute per square centimeter measured at noon of the 20th slightly exceeds the maximum January intensity previously measured at that station.

Table 2 shows a slight excess in the total solar radiation received on a horizontal surface directly from the sun and diffusely from the sky at Washington and Lincoln, and a slight deficiency at Madison, as compared with the January normals for these stations.

Skylight polarization at Washington made on four days give a mean of 57 per cent, with a maximum of 62 per cent on the 10th. These are slightly lower than the corresponding normal values for Washington for January.

